Commonwealth of Kentucky Environmental and Public Protection Cabinet Department for Environmental Protection Division for Air Quality

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AIR QUALITY PERMIT Issued under 401 KAR 52:020

Permittee Name: Daramic, LLC

Mailing Address: 5525 U.S. 60 East, Owensboro, KY 42303

Source Name: Daramic, LLC Mailing Address: Same as above

Source Location: North of Owensboro, by Yellow Creek & Ohio

River

Permit Number: V-03-004 R2

Source A. I. #: 894

Activity #: APE20060002 and APE200500003

Review Type: Title V

Source ID #: 21-059-00006

Regional Office: Owensboro

3032 Alvey Park Dr. West, Suite 700

Owensboro, KY 42303-2191

(270) 687 - 7304

County: Daviess

Application

Complete Date: May 11, 2006

Issuance Date: Revision Date: Expiration Date:

> John S. Lyons, Director Division for Air Quality

Revised 12/09/02

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V-03-004	Initial Issuance	APE20050001	10/10/03	April 1, 2004	Prevention of significant deterioration for Extractor Line III
V-03-004 R1	Title V/PSD Significant Revision	APE20040001	8/2/04	July 5, 2005	The major revision of the battery plate insulator plastic web production plant
V-03-004 R1	502(b)(10) Change	APE20050002	10/31/05	-	New and Modified Equipment and Processes
					The Mix Tower Dust Collector (2-13-16) Revision
V-03-004 R2	Significant Revision	APE20050003	5/11/06		Purchase of Fibermark Facility – Permitting of 900 hp Boiler
					Addition of Insignificant Activities

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SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

The following naming convention for emission points, emission sources, and equipment designation is used in this permit.

EPXX - Emission Point XX

EDXX - Emissions Unit Designation

(-) - Fugitive Emission Point

GROUP 01 Combustion Sources (Three Boilers)

Description:

EP01 ED01 One (1) 1200 HP Boiler used for Process Heat 95%, and Space Heat 5%

Installation Date: 1970

Primary Fuel: Natural Gas

Backup Fuel: Distillate Fuel Oil (No. 2)

Maximum Rated Capacity: 63.0 mmBtu/hr

Control Device: None

EP02 ED02 One (1) Erie City 600 HP Boiler used only for Space Heat

Installation Date: 1959

Primary Fuel Natural Gas

Backup Fuel Distillate Fuel Oil (No. 2)

Maximum rated Capacity: 26.8 mmBtu/hr

Control Device: None

EP03 ED03 One (1) Erie City 500 HP Boiler used only for Space Heat

Installation Date: 1959

Primary Fuel Natural Gas

Backup Fuel Distillate Fuel Oil (No. 2)

Maximum Rated Capacity: 22.3 mmBtu/hr

Control Device: None

APPLICABLE REGULATIONS:

401 KAR 61:015, Existing indirect heat exchangers, applies to the boilers ED 01, ED 02, and ED 03 with a total rated capacity of 26.8 + 22.3 + 63.0 = 112.1 mmBtu/hr heat capacity that were constructed before April 9, 1972.

40 CFR 63 Subpart DDDDD, *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters*. These boilers must be in compliance with this Subpart DDDDD no later than September 13, 2007 since these boilers are existing boilers.

1. Operating Limitations:

None

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. <u>Emission Limitations</u>:

For combustion of any combination of fuel by the three Boilers combined:

- a. Pursuant to 401 KAR 61:015, Appendix A, emissions of particulate matter (PM) (for Evansville Region, priority I, per 401 KAR 50:020 Appendix A) shall not exceed 0.316 lb/mmBtu.
- b. Pursuant to 401 KAR 61:015, Appendix B, emissions of sulfur dioxide (SO₂) [(for County Classification V, per 401 KAR 50:025 Section 1(7)] shall not exceed 4.42 lb/mmBtu.
- c. Pursuant to 401 KAR 61:015, Section 4(2), the opacity of visible emissions from the combustion of each fuel shall not exceed 20%, except for emissions during the building of new fire for the period required to bring the boiler up to operating conditions, provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations.

Compliance Demonstration Method:

While burning natural gas, this unit is considered to be in compliance with the PM, SO₂, and opacity standards.

While burning distillate fuel oil, compliance will be demonstrated by the following methods:

- a. For compliance with the PM emission limit, an emission factor of 2 lbs PM/1000 gallons of distillate oil burned shall be used, based on AP-42, Section 1.3 emission factors.
- b. Compliance with the SO₂ standard shall be based on AP-42, Section 1.3 emission factors, and may be demonstrated by calculating SO₂ emissions using the following formula:
 - lbs $SO_2/mmBtu = (157 lbs SO_2/1000 gallons x percent sulfur in distillate fuel oil from each shipment of distillate fuel oil combusted, based on vendor certification) divided by 140 mmBtu/1000 gallons.$
- c. For compliance with visible emissions limit, see Subsection 3, Testing Requirements and Subsection 4, Specific Monitoring Requirements.

3. Testing Requirements:

- a. Pursuant to 401 KAR 61:015 Section 7, performance testing, using the Reference Methods specified in 401 KAR 50:015 shall be conducted as required by the Division.
- b. When the unit is burning distillate fuel oil, the permittee shall determine the opacity of emissions from the stack using U.S. EPA Reference Method 9 upon request by the

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Division.

4. Specific Monitoring Requirements:

- a. The permittee shall monitor the percent sulfur in each shipment of distillate fuel oil received, based on the certification from the fuel supplier, and use that parameter to determine compliance with the sulfur dioxide emission limit.
- b. The permittee shall monitor the amount of fuel combusted on a monthly basis.
- c. While burning fuel oil, the permittee shall perform a qualitative visual observation of the opacity of emissions from the stack on a weekly basis and maintain a log of the observations. If any visible emissions are seen during the qualitative observations (not including condensed water vapor) then opacity must be determined by U.S. EPA Reference Method 9. If emissions are in excess of the applicable opacity limit, the permittee must initiate an inspection of the boilers for any necessary repairs.

5. Specific Recordkeeping Requirements:

The permittee shall maintain records of the following:

- a. Certification from the fuel supplier of the sulfur content of distillate fuel oil of each shipment of fuel oil received.
- b. The amount of fuel combusted on a monthly basis.
- c. The weekly qualitative opacity readings from the stack.
- d. The opacity determined by Reference Method 9, when taken, and documentation of any repairs that were made due to any opacity reading, which exceeded the standard.

6. Specific Reporting Requirements:

See Section F, Conditions 5, 6, 7, 8 and 9.

7. Specific Control Equipment Operating Conditions:

None

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

GROUP 01 Combustion Source (One Boiler)

Description:

EP77 ED223 Cleaver Brooks 900 HP Boiler

Construction Commencement Date: 1996

Primary Fuel: Natural Gas

Backup Fuel: Distillate Fuel Oil (No. 2)

Maximum Rated Capacity: 37.8 mmBtu/hr

Control Device: None

APPLICABLE REGULATIONS:

401 KAR 59:015, *New indirect heat exchangers*, applies to an emissions unit with a capacity of less than 250 mmBtu/hr which commenced on or after April 9, 1972.

40 CFR 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters. This boiler must be in compliance with this Subpart DDDDD no later than September 13, 2007.

1. **Operating Limitations:**

None

2. <u>Emission Limitations</u>:

- a. Pursuant to 401 KAR 59:015, emissions of particulate matter (PM) shall not exceed 0.2959 lb/mmBtu.
- b. Pursuant to 401 KAR 59:015, emissions of sulfur dioxide (SO₂) shall not exceed 0.9871 lb/mmBtu.
- c. Pursuant to 401 KAR 59:015, Section 4(2), emissions shall not exceed 20% opacity based on a six minute average, except that a maximum of 40% opacity, based on a six minute average, shall be permissible for not more that six consecutive minutes in any consecutive 60 minutes during cleaning the fire-box or blowing soot.

Compliance Demonstration Method:

While burning natural gas, this unit is considered to be in compliance with the PM, SO₂, and opacity standards.

While burning distillate fuel oil, compliance will be demonstrated by the following methods:

a. For compliance with the PM emission limit, an emission factor of 2 lbs PM/1000 gallons of distillate oil burned shall be used, based on AP-42, Section 1.3 emission factors.

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- b. Compliance with the SO₂ standard shall be based on AP-42, Section 1.3 emission factors, and may be demonstrated by calculating SO₂ emissions using the following formula:
 - lbs $SO_2/mmBtu = (157 \text{ lbs } SO_2/1000 \text{ gallons } x \text{ percent sulfur in distillate fuel oil from each shipment of distillate fuel oil combusted, based on vendor certification) divided by 140 mmBtu/1000 gallons.$
- c. For compliance with visible emissions limit, see Subsection 3, Testing Requirements and Subsection 4, Specific Monitoring Requirements.

3. <u>Testing Requirements</u>:

- a. Pursuant to 401 KAR 59:015 Section 8, performance testing, using the Reference Methods specified in 401 KAR 50:015 shall be conducted as required by the Division.
- b. When the unit is burning distillate fuel oil, the permittee shall determine the opacity of emissions from the stack using U.S. EPA Reference Method 9 upon request by the Division.

Specific Monitoring Requirements:

- a. The permittee shall monitor the percent sulfur in each shipment of distillate fuel oil received, based on the certification from the fuel supplier, and use that parameter to determine compliance with the sulfur dioxide emission limit.
- b. The permittee shall monitor the amount of fuel combusted on a monthly basis.
- c. While burning fuel oil, the permittee shall perform a qualitative visual observation of the opacity of emissions from the stack on a weekly basis and maintain a log of the observations. If any visible emissions are seen during the qualitative observations (not including condensed water vapor) then opacity must be determined by U.S. EPA Reference Method 9. If emissions are in excess of the applicable opacity limit, the permittee must initiate an inspection of the boilers for any necessary repairs.

5. **Specific Recordkeeping Requirements:**

The permittee shall maintain records of the following:

- a. Certification from the fuel supplier of the sulfur content of distillate fuel oil of each shipment of fuel oil received.
- b. The amount of fuel combusted on a monthly basis.
- c. The weekly qualitative opacity readings from the stack.
- d. The opacity determined by Reference Method 9, when taken, and documentation of any repairs that were made due to any opacity reading, which exceeded the standard.

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6. Specific Reporting Requirements:

See Section F, Conditions 5, 6, 7, 8 and 9.

7. Specific Control Equipment Operating Conditions:

None

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

GROUP 02 Raw Material Handling, Mixing Systems, and Recycle Operation

<u>Description</u>:

Emission Point	Description	Process Rate lb/hr	Control Device	Year Installe d
EP04 ED04	Rail Car Unloading	1,400	Filter Vent	1989
EP05 ED05	Polyethylene Silo	1,000	Filter Vent	1989
EP06 ED06	Silica Silo	1,000	Filter Vent	1989
EP07 ED07	Silica Silo	1,000	Filter Vent	1989
EP13 ED16	Mix Stack Process Dust Collector	34,520	Dust Collector	1989
EP13 ED18	Stack 1 Wetting Agent Ingredient Bins	1,000	Dust Collector	1989
EP13 ED19	Stack 1 Anti-Oxidant Ingredient Bins	1,000	Dust Collector	1989
EP13 ED20	Stack 1 Poly Storage Bin	2,000	Dust Collector	1989
EP13 ED21	Stack 1 Silica Storage Bin	2,000	Dust Collector	1989
EP13 ED24	Stack 1 Weigh Batcher	3,860	Dust Collector	1989
EP13 ED25	Stack 1 Mixer 1	4,200	Dust Collector	1989
EP13 ED26	Stack 1 Mixer 2	4,200	Dust Collector	1994
EP13 ED32	Stack 2 Poly Storage Bin	2,000	Dust Collector	1989
EP13 ED33	Stack 2 Silica Storage Bin	2,000	Dust Collector	1989
EP13 ED36	Stack 2 Weigh Batcher	3,860	Dust Collector	1989
EP13 ED37	Stack 2 Mixer 1	4,200	Dust Collector	1989
EP13 ED38	Stack 2 Mixer 2	4,200	Dust Collector	1998
EP14 ED17	Stack 1 Carbon Black Ingredient Bins	2,000	No Control	1989
EP15 ED22	Stack 1 Black Recycle Bin	1,000	Baghouse	1989
EP16 ED23	Stack 1 Grey Recycle Bin	1,000	Baghouse	1989
EP17 ED27	Storage Bin Ribbon Blender WP3 & 6	9,000	Filter Vent	1989
EP20 ED34	Stack 2 Black Recycle Bin	1,000	Baghouse	1989

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EP21 ED35	Stack 2 Grey Recycle Bin	1,000	Baghouse	1989
EP22 ED39	Storage Bin Ribbon Blender WP4	2,600	Filter Vent	1991
EP23 ED42	Storage Bin Ribbon Blender WP5	2,600	Filter Vent	1991
EP24 ED45	Storage Bin Ribbon Blender WP2	2,600	Filter Vent	1999
EP28 ED48	Minors Room Black Recycle Grinder	2,000	Baghouse/ Cyclone	1989
EP28 ED49	Minors Room Black Recycle Hopper	2,000	Baghouse/ Cyclone	1989
EP29 ED50	Minors Room Grey Grinder 1	2,000	Baghouse/ Cyclone	1989
EP29 ED51	Minors Room Grey Grinder 2	2,000	Baghouse/ Cyclone	1991
EP29 ED52	Minors Room Grey Grinder 3	2,000	Baghouse/ Cyclone	1995
EP29 ED53	Minors Room Grey Recycle Hopper	2,000	Baghouse/ Cyclone	1989

APPLICABLE REGULATIONS:

401 KAR 59:010, *New process operations*, is applicable to an emissions unit commenced on or after July 2, 1975.

1. Operating Limitations:

None

2. Emission Limitations:

a. Pursuant to 401 KAR 59:010, Section 3(2), particulate matter emissions into the open air shall not exceed [3.59(P)^{0.62}] lbs/hour, where P is the processing rate in tons/hour.

Compliance Demonstration Method:

The following table of controlled emission shall be used to show compliance with the PM emission limit:

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Emission Point	Description	Controlled Emission in pounds per hour	PM Maximum Limit per 59:010 App. A in pounds per hour
EP04 ED04	Rail Car Unloading	1.40	2.88
EP05 ED05	Polyethylene Silo	1.00	2.34
EP06 ED06	Silica Silo	1.00	2.34
EP07 ED07	Silica Silo	1.00	2.34
EP13 ED16	Mix Stack Process Dust Collector	6.90	20.99
EP13 ED18	Stack 1 Wetting Agent Ingredient Bins	0.20	2.34
EP13 ED19	Stack 1 Anti-Oxidant Ingredient Bins	0.20	2.34
EP13 ED20	Stack 1 Poly Storage Bin	0.40	3.59
EP13 ED21	Stack 1 Silica Storage Bin	0.40	3.59
EP13 ED24	Stack 1 Weigh Batcher	0.77	5.40
EP13 ED25	Stack 1 Mixer 1	0.84	5.69
EP13 ED26	Stack 1 Mixer 2	0.84	5.69
EP13 ED32	Stack 2 Poly Storage Bin	0.40	3.59
EP13 ED33	Stack 2 Silica Storage Bin	0.40	3.59
EP13 ED36	Stack 2 Weigh Batcher	0.77	5.40
EP13 ED37	Stack 2 Mixer 1	0.84	5.69
EP13 ED38	Stack 2 Mixer 2	0.84	5.69
EP14 ED17	Stack 1 Carbon Black Ingredient Bins	0.00	3.59
EP15 ED22	Stack 1 Black Recycle Bin	0.40	2.34
EP16 ED23	Stack 1 Grey Recycle Bin	0.40	2.34
EP17 ED27	Storage Bin Ribbon Blender WP3 & 6	3.60	9.12
EP20 ED34	Stack 2 Black Recycle Bin	0.40	2.34
EP21 ED35	Stack 2 Grey Recycle Bin	0.40	2.34
EP22 ED39	Storage Bin Ribbon Blender WP4	1.04	4.22

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EP23 ED42	Storage Bin Ribbon Blender WP5	1.04	4.22
EP24 ED45	Storage Bin Ribbon Blender WP2	1.04	4.22
EP28 ED48	Minors Room Black Recycle Grinder	0.80	3.59
EP28 ED49	Minors Room Black Recycle Hopper	0.80	3.59
EP29 ED50	Minors Room Grey Grinder 1	0.80	3.59
EP29 ED51	Minors Room Grey Grinder 2	0.80	3.59
EP29 ED52	Minors Room Grey Grinder 3	0.80	3.59
EP29 ED53	Minors Room Grey Recycle Hopper	0.80	3.59

b. Pursuant to 401 KAR 59:010, Section 3(1)(a), any continuous emissions into the open air shall not equal or exceed 20% opacity.

Compliance Demonstration Method:

For compliance with visible emissions limit, see Subsection 3, Testing Requirements and Subsection 4, Specific Monitoring Requirements.

3. Testing Requirements:

- a. Pursuant to 401 KAR 61:015 Section 7, performance testing, using the Reference Methods specified in 401 KAR 50:015 shall be conducted as required by the Division.
- b. The permittee shall determine the opacity of emissions from the stack using U.S. EPA Reference Method 9 upon request by the Division.

4. Specific Monitoring Requirements:

- a. The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack on a weekly basis and maintain a log of the observations. If visible emissions from the stack are seen, then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for any necessary repairs.
- b. The permittee shall monitor the raw material throughput rate and hours of operation on a monthly basis for each emission unit.

5. Specific Recordkeeping Requirements:

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The permittee shall retain records of the following:

- a. The tons of raw material throughput and hours of operation shall be maintained on a monthly basis from each emission unit.
- b. Weekly qualitative opacity readings from each stack.
- c. The opacity determined by Reference Method 9, when taken, and documentation of any repairs that were made due to any opacity reading, which exceeded the standard.

6. Specific Reporting Requirements:

See Section F, Conditions 5, 6, 7, 8 and 9.

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GROUP 03 Extruders

Description:

Emission Point	Description	Process Rate lb/hr	Control Device	Year Installe d
EP27 ED46	Extruder #2	2,600	Smog Hog	1972
EP18 ED28	Extruder #3	4,500	Smog Hog	1989
EP25 ED40	Extruder #4	2,600	Smog Hog	1001
EP23 ED40	Extruder #4 (Surfactant / VOC)	29.92	No Control	1991
ED26 ED42	Extruder #5	2,600	Smog Hog	1001
EP26 ED43	Extruder #5 (Surfactant / VOC)	10.08	No Control	1991
EP19 ED30	Extruder #6	4,500	Smog Hog	1995

APPLICABLE REGULATIONS:

401 KAR 59:010, *New process operations*, is applicable to an emissions unit commenced on or after July 2, 1975.

401 KAR 61:020, *Existing process operations*, is applicable to an emissions unit commenced before July 2, 1975.

1. **Operating Limitations:** None

2. Emission Limitations:

a. Pursuant to 401 KAR 59:010, Section 3(2), particulate matter emissions into the open air shall not exceed [3.59(P)^{0.62}] lbs/hour, where P is the processing rate in tons/hour.

Compliance Demonstration Method:

The following table of controlled emission shall be used to show compliance with the PM emission limit based on 401 KAR 59:010 Appendix A.

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Emission Point	Description	Controlled Emission in pounds per hour	PM Maximum Limit per 59:010 App. A in pounds per hour
EP18 ED28	Extruder #3	4.95	5.94
EP25 ED40	Extruder #4	2.86	4.22
EP26 ED43	Extruder #5	2.86	4.22
EP19 ED30	Extruder #6	4.95	5.94

b. Pursuant to 401 KAR 61:020, Section 3(2)(a), particulate matter emissions into the open air shall not exceed [4.10(P)^{0.67}] lbs/hour, where P is the processing rate in tons per hour.

Compliance Demonstration Method:

The following table of controlled emission shall be used to show compliance with the PM emission limit based on 401 KAR 61:020 Appendix A.

Emission Point	Description	Controlled Emission in pounds per hour	PM Maximum Limit per 61:020 App. A in pounds per hour
EP27 ED46	Extruder #2	2.86	4.89

c. Pursuant to 401 KAR 59:010, Section 3(1)(a), any continuous emissions into the open air shall not equal or exceed 20% opacity.

Compliance Demonstration Method:

For compliance with visible emissions limit, see Subsection 3, Testing Requirements and Subsection 4, Specific Monitoring Requirements.

d. Pursuant to 401 KAR 61:020, Section 3(1)(a), visible emissions from a control device or stack shall not equal or exceed 40% opacity.

Compliance Demonstration Method:

For compliance with visible emissions limit, see Subsection 3, Testing Requirements and Subsection 4, Specific Monitoring Requirements.

3. Testing Requirements:

a. Pursuant to 401 KAR 61:015 Section 7, performance testing, using the Reference Methods

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

specified in 401 KAR 50:015 shall be conducted as required by the Division.

b. The permittee shall determine the opacity of emissions from the stack using U.S. EPA Reference Method 9 upon request by the Division.

4. Specific Monitoring Requirements:

- a. The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack on a weekly basis and maintain a log of the observations. If visible emissions from the stack are seen, then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for any necessary repairs.
- b. The permittee shall monitor the raw material throughput rate and hours of operation on a monthly basis for each emission unit.

5. Specific Recordkeeping Requirements:

The permittee shall retain records of the following:

- a. The tons of raw material throughput and hours of operation shall be maintained on a monthly basis from each emission unit.
- b. Weekly qualitative opacity readings from each stack.
- c. The opacity determined by Reference Method 9, when taken, and documentation of any repairs that were made due to any opacity reading, which exceeded the standard.

6. Specific Reporting Requirements:

See Section F, Conditions 5, 6, 7, 8 and 9.

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

GROUP 04 Extractor Line I and Extractor Lines I & II Shared Equipments Description:

Polyethylene web from the extruders is fed into the extractors that use a counter flow bath of solvent to remove the oil from the web. The emissions from the extractors (condensers, oven, evaporators, and other process equipment) are primarily n-Hexane and other VOCs that are collected in the carbon bed filters.

Emission Point	Description		Year Installed
Extractor Line I			
EP30 ED60	Extractor I including – Infeed Hood, Extractor Body, UEL Drying Oven, and Exit Hood (Hexane)	Carbon Bed 1	1969
(-) ED62	Fugitive Sources – piping, pumps, seals, and roof vents	No Control	1969
(-) ED65	Web Path & Winder	No Control	1969
Extractor Line	s I & II Shared Equipments		
EP30 ED54	Carbon Bed 1 – Controlling Hexane & VOC Emission from	Carbon Bed 1	1989
EP30 ED61	Condensers (2)	Carbon Bed 1	1969
EP31 ED63	Annealing Oven #1	Carbon Bed 1	1969
EP30 ED55	Evaporator #1	Carbon Bed 1	1974

Process rates of plastic web 3,500 lbs/hr, and solvent 80 gallons/min.

APPLICABLE REGULATIONS:

- 401 KAR 63:020, *Potentially hazardous matter or toxic substances*, is applicable to all hazardous or toxic air pollutants.
- 401 KAR 63:021, Existing sources emitting toxic air pollutants, is applicable to n-Hexane emissions.
- 40 CFR 64, *Compliance Assurance Monitoring*, is applicable to the control of hexane and VOC emissions from extractor lines with the use of carbon bed filters.

1. Operation Limitations:

a. The permittee shall provide the utmost care and consideration, in the handling of hazardous matter or toxic substances, to the potentially harmful effects of the emissions resulting from

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

such activities. [401 KAR 63:020, Section 3]

b. See Section D for plantwide n-Hexane limits.

2. Emission Limitations:

Pursuant to a PSD revision for extractor line III, the emissions of solvent due to its loss from extractor line I shall not exceed 213 tons per year to avoid the following:

- a. Applicability of 401 KAR 51:017 for extractor line I.
- b. See Section D for plant wide n-Hexane limits.

Compliance Demonstration Method:

Monthly VOC emissions from Line I shall be calculated and be kept available at plant, and shall be used to calculate the annual emission rate.

- Monthly Emissions = Total daily solvent losses from line I for calendar month
- Annual Emission in tons = Total emissions of extractor line I based on any twelve (12) consecutive months.

3. <u>Testing Requirements</u>:

Pursuant to 401 KAR 50:045, Section 1, performance tests using the Reference Methods specified in 401 KAR 50:015 shall be conducted as required by the Division. If different testing methods are proposed or if there is no suitable reference method for the measurement of VOC, a testing protocol shall be submitted by the source one (1) month in advance, and be approved by the Division.

4. Specific Monitoring Requirements:

- a. The permittee shall monitor and maintain records of the monthly usage rate of solvent on the extraction line.
- b. The permittee shall monitor the monthly unloading of solvent at the rail siding and any other source of solvent delivered to the plant for use in the extraction line.
- c. The permittee shall monitor the operating and non-operating hours per month on the extractor line.
- d. The VOC emissions calculations shall be based on monthly purchased solvent for each of the process lines using the following solvent consumption allocation table that was determined by the PSD review for extractor line III:

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Extractor Lines	Solvent Consumption Allocation
Extractor Line I	16%
Extractor Line II	34%
Extractor Line III	26%
Extractor Line IV	24%

- e. Any changes to the percentage allocated to each line shall be based on emissions estimates reviewed with and approved by the Division.
- f. All the parameters listed in the approved VOC monitoring plan shall be monitored and recorded. See the Testing Requirements above.
- g. For monitoring requirements pursuant to 40 CFR 64, refer to Section D, 3.

5. Specific Record keeping Requirements:

See Specific Monitoring Requirements above.

6. Specific Reporting Requirements:

The monthly VOC emissions calculations shall be submitted to the Owensboro Regional Office on a quarterly basis.

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

GROUP 05 Extractor Line II and Extractor Lines I & II Shared Equipments Description:

Polyethylene web from the extruders is fed into the extractors that use a counter flow bath of solvent to remove the oil from the web. The emissions from the extractors (condensers, oven, evaporators, and other process equipment) are primarily n-Hexane and other VOCs that are collected in the carbon bed filters. The extracted web is coated with a surfactant and is cut into desired sizes.

Emission Point	Description	Control Device	Year Installed		
Extractor Line	Extractor Line II				
EP30 ED66	Extractor II including – Infeed Hood, Extractor Body, Stripper, UEL Drying Oven, LEL Tunnel, and Exit Hood (Hexane)	Carbon Bed 1	1974		
(-) ED68	Fugitive Sources – piping, pumps, seals	No Control	1974		
(-) ED71	Web Path & Winder	No Control	1974		
Extractor Line	s I & II Shared Equipments				
EP30 ED54 (Group 4)	Carbon Bed 1 – Controlling Hexane & VOC Emission from	Carbon Bed 1	1989		
EP30 ED55 (Group 4)	Evaporator #1	Carbon Bed 1	1974		
EP30 ED67	Condensers (2)	Carbon Bed 1	1969		
EP33 ED69	Extractor II Coater	No Control	1978		
EP34 ED70	Extractor II Coating Dryer	No Control	1978		

Process rates of plastic web 3,500 lbs/hr, solvent 80 gallons/min, and surfactant 15 lbs/hr.

APPLICABLE REGULATIONS:

- 401 KAR 63:020, *Potentially hazardous matter or toxic substances*, is applicable to all hazardous or toxic air pollutants.
- 401 KAR 63:021, Existing sources emitting toxic air pollutants, is applicable to n-Hexane emissions.
- 40 CFR 64, *Compliance Assurance Monitoring*, is applicable to the control of hexane and VOC emissions from extractor lines with the use of carbon bed filters.

1. Operation Limitations:

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- a. The permittee shall provide the utmost care and consideration, in the handling of hazardous matter or toxic substances, to the potentially harmful effects of the emissions resulting from such activities. [401 KAR 63:020, Section 3]
- b. See Section D for plantwide n-Hexane limits.
- c. Surface coating use rates shall be less than or equal to 15 pounds per hour (surfactant) at a VOC (isopropanol) coating content of 5%.

Compliance Demonstration Method:

Compliance for surface coating shall be based on a twelve (12) month rolling total of surface coating use. Monthly records of surface coating usage and solvent consumption allocation on extractor line II shall be kept available at the plant.

2. <u>Emission Limitations</u>:

See Section D for plantwide n-Hexane limits.

Compliance Demonstration Method:

Monthly VOC emissions from Line II shall be calculated and be kept available at plant, and shall be used to calculate the annual emission rate.

- Monthly Emissions = Total daily solvent losses from line II for calendar month
- Annual Emission in tons = Total emissions of extractor line II based on any twelve (12) consecutive months.

3. <u>Testing Requirements</u>:

Pursuant to 401 KAR 50:045, Section 1, performance tests using the Reference Methods specified in 401 KAR 50:015 shall be conducted as required by the Division. If different testing methods are proposed or if there is no suitable reference method for the measurement of VOC, a testing protocol shall be submitted by the source one (1) month in advance, and be approved by the Division.

4. Specific Monitoring Requirements:

- a. The permittee shall monitor and maintain records of the monthly usage rate of solvent on the extractor line.
- b. The permittee shall monitor the monthly unloading of solvent at the rail siding and any other source of solvent delivered to the plant for use in the extraction line.
- c. The permittee shall monitor the operating and non-operating hours per month on the

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

extractor line.

d. The VOC emissions calculations shall be based on monthly purchased solvent for the process line using the following solvent consumption allocation table that was determined by the PSD review for extractor line III:

Extractor Lines	Solvent Consumption Allocation
Extractor Line I	16%
Extractor Line II	34%
Extractor Line III	26%
Extractor Line IV	24%

- e. Any changes to the percentage allocated to each line shall be based on emissions estimates reviewed with and approved by the Division.
- f. All the parameters listed in the approved VOC monitoring plan shall be monitored and recorded. See the Testing Requirements above.
- g. For monitoring requirements pursuant to 40 CFR 64, refer to Section D, 3.

5. Specific Record keeping Requirements:

See Specific Monitoring Requirements above.

6. Specific Reporting Requirements:

The monthly VOC emissions calculations shall be submitted to the Owensboro Regional Office on a quarterly basis.

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GROUP 06 Extractor Line III

Description:

Polyethylene web from the extruders is fed into the extractors that use a counter flow bath of solvent to remove the oil from the web. The emissions from the extractors (condensers, oven, evaporator, and other process equipment) are primarily n-Hexane and other VOCs that are collected in the carbon bed filters. The extracted web is coated with a surfactant and is cut into desired sizes.

Emission Point	Description	Control Device	Year Installed
EP37 ED74	Carbon Bed 2 – Controlling Hexane & VOC Emission from	Carbon Bed 2	1990
EP37 ED77	Condensers (3)	Carbon Bed 2	1990
EP37 ED75	Evaporator #2	Carbon Bed 2	1990
EP37 ED76	Extractor III including – Infeed Hood, Extractor Body, Stripper, UEL Drying Oven, LEL Tunnel, and Exit Hood (Hexane)	Carbon Bed 2	1990
(-) ED78	Fugitive Sources – piping, pumps, seals	No Control	1990
(-) ED29	Web Path & Winder	No Control	1990
EP38 ED79	Extractor III Coater	No Control	1990
EP39 ED79	Extractor III Coater Tunnel	No Control	1990
EP40 ED80	Extractor III Coating Dryer	No Control	1990

Process rates of plastic web 3,500 lbs/hr, solvent 80 gallons/min, and surfactant 90 lbs/hr.

APPLICABLE REGULATIONS:

- 401 KAR 51:017, (40 CFR 5.21), *Prevention of Significant Deterioration of Air Quality*, is applicable to Extractor Line III since Daramic was found to be in violation of the synthetic minor limit on VOCs set on Extractor Line III.
- 401 KAR 63:020, *Potentially hazardous matter or toxic substances*, is applicable to all hazardous or toxic air pollutants.
- 401 KAR 63:021, Existing sources emitting toxic air pollutants, is applicable to n-Hexane emissions.
- 40 CFR 64, *Compliance Assurance Monitoring*, is applicable to the control of hexane and VOC emissions from extractor lines with the use of carbon bed filters.

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. Operation Limitations:

- a. The permittee shall provide the utmost care and consideration, in the handling of hazardous matter or toxic substances, to the potentially harmful effects of the emissions resulting from such activities. [401 KAR 63:020, Section 3]
- b. See Section D for plantwide n-Hexane limits.
- c. Surface coating (surfactant) usage shall be less than or equal to 90 pounds per hour of a VOC (isopropanol) solution with the coating content of 5%, where this 0.5 lb of VOC/gallon coating solution is the BACT limit as described in the Statement of Basis.

Best Available Control Technology Limits:

Best available control technology for VOC emissions control from extractor line III shall be maintained by operation of Carbon Bed 2 with 96% emission control efficiency. Carbon Bed 2 efficiency shall further be increased by 2% by an outdoor "cool down air blower" on Carbon Bed 2 to provide a total of 98% efficiency for control of extractor line III emissions. Please refer to Section I, Compliance Schedule. The permittee may use an alternative control method to achieve the 98% BACT limit.

Additional emissions control measures as part of extractor line III BACT are:

- a. Maintain the venting of all solvent/oil-solvent mixture storage tanks on extractor line III to Carbon Bed 2, resulting in no breathing/working loss for these tanks.
- b. Maintain the capturing of all extractor line III body vents and blow off relief valves to Carbon Bed 2.
- c. Maintain the outdoor "cool down air blower" on Carbon Bed 2 to increase the recycle efficiency of extractor line III to 98%. The permittee may use an alternative control method to achieve the 98% BACT limit in the permit.
- d. Maintain air curtains on the entrance/exit of the extractor body to direct any fugitive VOC emissions to Carbon Bed 2.
- e. Maintain the seal on the decanter tank cover to direct VOC emissions from the water/solvent separator to the Carbon Bed 2.
- f. Maintain manufacturer's specifications for each unit, and for the control unit of extractor line
- g. Maintain a spill response program to effectively and efficiently respond to spills/fugitive leak of solvent/VOC containing materials from equipment, including pumps, valves, connections, flanges, and condensers.

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Compliance Demonstration Method:

- a. Compliance with respect to surface coating shall be based on a twelve (12) month rolling total of surface coating use. Monthly records of surface coating usage, hours of operation and solvent consumption allocation on extractor line III shall be kept available at the plant.
- b. For compliance with BACT requirements, a copy of the standard operating procedures, which includes the above limitations, shall be maintained and kept available for Division inspection.

2. Emission Limitations:

See Section D for plantwide n-Hexane limits.

3. <u>Testing Requirements</u>:

Pursuant to 401 KAR 50:045, Section 1, performance tests using the Reference Methods specified in 401 KAR 50:015 shall be conducted as required by the Division. If different testing methods are proposed or if there is no suitable reference method for the measurement of VOC, a testing protocol shall be submitted by the source one (1) month in advance, and be approved by the Division.

4. Specific Monitoring Requirements:

- a. The permittee shall monitor and maintain records of the monthly usage rate of solvent on extraction line.
- b. The permittee shall monitor the monthly unloading of solvent at the rail siding and any other source of solvent delivered to the plant for use in the extraction line.
- c. The permittee shall monitor the operating and non-operating hours per month on the extractor line.
- d. The VOC emissions calculations shall be based on monthly purchased solvent for each of the process lines using the following solvent consumption allocation table that was determined by the PSD review for extractor line III:

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Extractor Lines	Solvent Consumption Allocation
Extractor Line I	16%
Extractor Line II	34%
Extractor Line III	26%
Extractor Line IV	24%

- e. Any changes to the percentage allocated to each line shall be based on emissions estimates reviewed with and approved by the Division.
- f. All the parameters listed in the approved VOC monitoring plan shall be monitored and recorded. See the Testing Requirements above.
- g. Carbon bed adsorber: The permittee shall monitor and maintain records of the monthly efficiency of Carbon Bed 2. The efficiency determination for Carbon Bed 2 shall be calculated by monitoring the concentration of VOC in the carbon bed inlet air stream and the concentration of VOC in the carbon bed outlet air stream and calculating the percent removed during the carbon absorption process as a monthly average. A report on monthly efficiency of Carbon Bed 2 shall be maintained at the facility.
- h. Facility must provide an assurance for the accuracy of the VOC concentration measurements on the inlets and the outlets of the carbon bed.
- i. For monitoring requirements pursuant to 40 CFR 64, refer to Section D, 3.

5. Specific Record keeping Requirements:

- a. See Specific Monitoring Requirements above.
- b. The manufacture's specifications for carbon bed adsorber operation (including the parameters listed in monitoring requirements above) shall be kept available for Division's inspection.

6. Specific Reporting Requirements:

The monthly VOC emissions calculations shall be submitted to the Owensboro Regional Office on a quarterly basis.

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GROUP 07 Extractor Line IV

Description:

Polyethylene web from the extruders is fed into the extractors that use a counter flow bath of solvent to remove the oil from the web. The emissions from the extractors (condensers, oven, evaporators, and other process equipment) are primarily n-Hexane and other VOCs that are collected in the carbon bed filters. The extracted web is coated with a surfactant and is cut into desired sizes.

Emiss Poir	-	Description	Control Device	Year Installed
EP42	ED83	Carbon Bed 3 – Controlling Hexane & VOC Emission from	Carbon Bed 3	1995
EP42	ED86	Condensers (3)	Carbon Bed 3	1995
EP42	ED84	Evaporator #3	Carbon Bed 3	1995
EP42	ED85	Extractor IV including – Infeed Hood, Extractor Body, Stripper, UEL Drying Oven, LEL Tunnel, and Exit Hood (Hexane)	Carbon Bed 3	1995
(-) H	ED87	Fugitive Sources – piping, pumps, seals	No Control	1995
(-) H	ED90	Web Path & Winder	No Control	1995
EP43	ED88	Extractor IV Coater	No Control	1995
EP44	ED88	Extractor IV Coater Tunnel	No Control	1995
EP45	ED89	Extractor IV Coating Dryer	No Control	1995

Process rates of plastic web 3,500 lbs/hr, solvent 80 gallons/min, and surfactant 95 lbs/hr.

APPLICABLE REGULATIONS:

- 401 KAR 63:020, *Potentially hazardous matter or toxic substances*, is applicable to all hazardous or toxic air pollutants.
- 401 KAR 63:021, Existing sources emitting toxic air pollutants, is applicable to n-Hexane emissions.
- 40 CFR 64, *Compliance Assurance Monitoring*, is applicable to the control of hexane and VOC emissions from extractor lines with the use of carbon bed filters.

1. Operation Limitations:

a. The permittee shall provide the utmost care and consideration, in the handling of hazardous

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

matter or toxic substances, to the potentially harmful effects of the emissions resulting from such activities. [401 KAR 63:020, Section 3]

- b. See Section D for n-Hexane plantwide emission limit.
- c. Surface coating use rates shall be less than or equal to 95 pounds per hour (surfactant) at a VOC coating content of 5% (isopropanol).

Compliance Demonstration Method:

Compliance with the surface coating usage limit shall be based on a twelve (12) month rolling total of surface coating use. Monthly records of surface coating usage and VOC content on extraction line IV shall be kept available at the plant.

2. Emission Limitations:

See Section D for plantwide n-Hexane limits.

Compliance Demonstration Method:

Monthly VOC emissions from Line IV shall be calculated and be kept available at plant, and shall be used to calculate the annual emission rate.

- Monthly Emissions = Total daily solvent losses from line IV for calendar month
- Annual Emission in tons = Total emissions of extractor line IV based on any twelve (12) consecutive months.

3. Testing Requirements:

Pursuant to 401 KAR 50:045, Section 1, performance tests using the Reference Methods specified in 401 KAR 50:015 shall be conducted as required by the Division. If different testing methods are proposed, or if there is no suitable reference method for the measurement of VOC, a testing protocol shall be submitted by the source one (1) month in advance of testing to be approved by the Division.

4. Specific Monitoring Requirements:

- a. The permittee shall monitor and maintain records of the monthly usage rate of solvent on extraction line.
- b. The permittee shall monitor the monthly unloading of solvent at the rail siding and any other source of solvent delivered to the plant for use in the extraction lines.
- c. The permittee shall monitor the operating and non-operating hours per month on each extractor lines.

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d. The VOC emissions calculations shall be based on monthly purchased solvent for each of the process lines using the following solvent consumption allocation table that was determined by the PSD review for extractor line III:

Extractor Lines	Solvent Consumption Allocation
Extractor Line I	16%
Extractor Line II	34%
Extractor Line III	26%
Extractor Line IV	24%

- e. Any changes to the percentage allocated to each line shall be based on emissions estimates reviewed with and approved by the Division.
- f. All the parameters listed in the approved VOC monitoring plan shall be monitored and recorded. See the Testing Requirements above.
- g. For monitoring requirements pursuant to 40 CFR 64, refer to Section D, 3.

5. Specific Record keeping Requirements:

See Specific Monitoring Requirements above.

6. **Specific Reporting Requirements:**

The monthly VOC emissions calculations shall be submitted to the Owensboro Regional Office on a quarterly basis.

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GROUP 8 - SEVENTEEN ABOVE GROUND STORAGE TANKS CONTROLLED BY CARBON BED 1 (Installed in 1989)

EP	ED	Description – Process Unit Name	Date Installed	Gallons Tank Capacity
30	93	T-108 Extractor I (EI) Solvent Tank	1972	846
30	94	T-114 EI Oil/Solvent Tank	1969	135
30	95	T-206 CB1 Solvent Decant	1989	314
30	96	T-207 Evap 1 - Oil/Sol Decant	1995	101
30	97	T-208 Evap 1 – Solv Decant	1974	367
30	98	T-816 OXE sample tank Evap1	1974	98
30	99	T-209 EI&II Solvent Tank	1974	1,991
30	100	T-214 EII Solvent/Oil Tank	1974	2,036
30	101	T-215 EII Solvent/Oil Tank	1974	470
30	102	T-217 EII Solvent Tank	1974	564
30	103	T-227 Oil Storage Tank	1994	501
30	104	T-235 Oil/Sol Decanter Tank	1974	917
30	105	T-401 Common Solvent Tank	1969	24,500
30	106	T-402 Common Oil/Sol Tank	1969	24,500
30	107	T-403 Common Oil/Sol Tank	1969	24,500
30	108	T-406 Common Solvent Tank 1974		19,970
30	109	T-408 Skimmer Oil/Solvent Recovery Tank	1999	1,500

GROUP 9 – ELEVEN ABOVE GROUND STORAGE TANKS CONTROLLED BY CARBON BED 2 (Installed in 1990)

EP	ED	Description – Process Unit Name	Date Installed	Gallons Tank Capacity
37	110	T-601 EIII Solvent Tank	2003	2,349
37	111	T-602 EIII Oil/Solvent Tank	1990	2,349
37	112	T-603 EIII Oil/Solvent Tank	1990	1,150
37	113	T-604 Evap 2 – Oil Storage Tank	1990	4,511

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37	114	T-605 Evap 2 – Oil Storage Tank	1990	4,511
37	115	T-612 Evap 2 Sample Tank	1990	79
37	116	T-819 Oxe Vent Evap 2	1995	1,031
37	117	T-826 CB 2 – Solvent Recovery	2003	85
37	118	T-827 CB 2 – Solvent Decant	1990	297
37	120	T-818 Decanter Evap 2	1990	282

GROUP 10 – FOURTEEN ABOVE GROUND STORAGE TANKS CONTROLLED BY CARBON BED 3 (Installed in 1995)

EP	ED	Description – Process Unit Name	Date Installed	Gallons Tank Capacity
42	121	T-410 Oil/Solv New Tank Farm	1995	37,500
42	122	T-411 Solvent New Tnk Farm	1995	32,115
42	123	T-412 Solv Decant Tank	1995	399
42	124	T-701 E-IV Solvent Tank	1997	2,200
42	125	T-702 E-IV Oil/Solvent Tank	2003	2,200
42	126	T-703 E-IV Oil Tank	1995	450
42	127	T-704 Evap 3 Oil Recovery Tank	1995	2,350
42	128	T-705 Evap 3 Oil Recovery Tank	1995	2,350
42	129	T-706 Evap 3 Solvent Vent Tank	1995	1,469
42	130	T-707 Evap 3 Solv Decant	1995	392
42	131	T-709 Evap 3 Solv Recovery	1995	1,144
42	132	T-712 Evap 3 Sample Tank	1995	79
42	133	T-714 CB 3 – Solvent Recovery Tank	1995	100
42	134	T-849 CB 3 – Decant Tank	1995	362

GROUP 11 – ONE ABOVE GROUND STORAGE TANKS ARE NOT CONROLLED BY THE CARBON BEDS.

EP	ED	Description – Process Unit Name	Date Installed	Gallons Tank Capacity
72	15	T-854 Dry Blend Surfactant (ARMA) Tank	2005	55

APPLICABLE REGULATIONS:

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- 401 KAR 63:020, *Potentially hazardous matter or toxic substances*, is applicable to all hazardous or toxic air pollutants.
- 40 CFR 60 Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, is applicable to storage tanks exceeding 19,812.9 gallons (or 75 m³).

The following solvent tanks are subject to the provisions of 40 CFR 60 Subpart Kb:

EP	ED	Description – Process Unit Name	Description – Process Unit Name Date Installed	
42	121	T-410 Oil/Solv New Tank Farm	1995	37,500
42	122	T-411 Solvent New Tank Farm	1995	32,115

1. **Operating Limitations:**

Vent to Carbon Beds.

2. <u>Emission Limitations</u>:

None

3. Testing Requirements:

See Subsection 7 below.

4. Specific Monitoring Requirements:

Pursuant to 40 CFR 60.116b, the permittee shall keep copies of all required records (see Subsection 7 below) and as specified in 40 CFR 60.110 b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.

5. Specific Recordkeeping Requirements:

Pursuant to 40 CFR 60.115b(c), the permittee shall keep the following records.

- a. A copy of the operating plan.
- b. A record of the measured values of the parameters monitored in accordance with 40 CFR 60.113b(c)(2).

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. Specific Reporting Requirements:

See Subsection 5 above.

7. Specific Control Equipment Operating Conditions:

Pursuant to 40 CFR 60.113b(c), the facility shall operate the control equipment used to control VOC vapors from the tanks subject to 40 CFR 112b according to the operating plan developed by 40 CFR 60.113b(c)(1)(i) and (ii) for containing information demonstrating that the control device will achieve the required control efficiency during maximum loading condition.

GROUP 12 – THE FOLLOWING TANKS AND ACTIVITIY ARE SUBJECT TO 40 CFR 63, SUBPART EEEE:

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Control	ED	Description – Process Unit Name	Date Installed	Gallons Tank Capacity
Carbon Bed 1	105	T-401 Common Solvent Tank	1969	24,500
Carbon Bed 1	106	T-402 Common Oil/Sol Tank	1969	24,500
Carbon Bed 1	107	T-403 Common Oil/Sol Tank	1969	24,500
Carbon Bed 1	108	T-406 Common Solvent Tank	1974	19,970
Carbon Bed 3	121	T-410 Oil/Solv New Tank Farm	1995	37,500
Carbon Bed 3	122	T-411 Solvent New Tank Farm	1995	32,115

APPLICABLE REGULATIONS:

40 CFR 63 Subpart EEEE, National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline), is applicable to these sources as compliance date of February 5, 2007.

1. Operation Limitations:

None

2. Emission Limitations:

Per 40 CFR 63, Subpart EEEE, Table 2, 6.a.i, reduce HAP emissions by 95 weight-percent from operating tanks subject to this regulation when storing organic liquid. Compliance with this subpart is required by February 5, 2007.

3. <u>Testing Requirements</u>:

Compliance is required by February 5, 2007.

4. **Specific Monitoring Requirements:**

Compliance is required by February 5, 2007.

5. Specific Record Keeping Requirements:

Compliance is required by February 5, 2007.

6. Specific Reporting Requirements:

Compliance is required by February 5, 2007.

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SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

8. Specific Control Equipment Operating Conditions:

See Subsection 2 above.

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SECTION C – INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

Generally applicable regulations apply to the insignificant activities listed in the following table where particulate matter is processed.

- Regulation 401 KAR 59:010, *New process operations*, applies to the particulate matter and visible emissions for processes installed after July 2, 1975.
- Regulation 401 KAR 61:020, *Existing process operations*, applies to the particulate matter and visible emissions for processes installed prior to July 2, 1975.

EP	ED	Process Area	Description – Process Unit Name	Date Installed
8	10	Pelletizing	Gray Grind Cyclone & Hopper	2005
9	11	Pelletizing	Mixer #1 – Pelletizer	2005
10	12	Pelletizing	Mixer #2 – Pelletizer	2005
(-)	31	Unloading	Rail Car Unloading Rack Tank (Solvent)	1974
(-)	41	Pelletizing	Grinder #1 - Pelletizer	2005
(-)	44	Pelletizing	Grinder #2 - Pelletizer	2005
(-)	47	Pelletizing	Pelletizer Hopper	2005
73	56	Pelletizing	Pelletizer	2005
74	57	Pelletizing	Pellet Centrifuge (Spin Dryer)	2005
75	58	Pelletizing	Pellet Cyclone & Hopper	2005
(-)	59	Pelletizing	T-855 Pelletizer Oil Tank	2005
35	72	EII	T-850 Surfactant (ARMA) Tank	1976
36	73	ΕII	T-851 Surfactant (ARMA) Tank	1976
41	81	E III	T-500 Surfactant (ARMA) Tank	1989
41	82	E III	T-501 Surfactant (ARMA) Tank	1989
46	91	E IV	T-710 Surfactant (ARMA) Tank	1995
47	92	E IV	T-711 Surfactant (ARMA) Tank	1995
48	135	Process	T-852 Bulk Surfactant (ARMA) Tank	2000
49	136	Boiler	T-506 Fuel Oil Tank – Boiler Backup	1972
50	137	Process	One Conditioning Line (Unwind, Slitter, Chopper, Rewind)	1986

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SECTION C – INSIGNIFICANT ACTIVITIES (CONTINUED)

51	138	Process	One 4-wide DGRF Finishing Line	2003
52	139	Process	One Single-wide DGRE Finishing Line	1995
53	140	Process	One Reinspection Line	2000
54 55 56	141, 142, 143	Process	Web Slitting Lines (Quantity 3)	1986
57	144	Process	Web Processing Line (Unwind, Slitter, Chopper, Rewind)	1986
58 to 61	145 to 148	QC Lab	Quality Control Lab Hoods (Quantity 4)	1995
62 to 66	149 to 153	R&D	R&D Center Lab Hoods (Quantity 5)	1990
67 68	154, 155	R&D	R&D Pilot Lab Carbon Beds (Quantity 2)	1990
67 68	156	R&D	R&D Pilot Lab Extractor	1990
69 70	157, 158	R&D	R&D Pilot Lab Extruders (Quantity 2)	1990
71	159	R&D	R&D Pilot Lab Web Coater	1990
(-)	160	E I & II	T-211 Evap 1 Oil Recovery Tanks	1972
(-)	161	EI&II	T-212 Evap 1 Oil Recovery Tanks	1972
(-)	162	Nitrogen	T-218 Nitrogen Reservoir Tank	1995
(-)	163	Extruder	T-400 Hot/Cold Tank for Chilling System	2000
(-)	164	Mixing	T-404 New Oil Tank Farm Oil Storage Tank	1999
(-)	165	Mixing	T-405 New Oil Tank Farm Oil Storage Tank	1999
(-)	166	Mixing	T-407 New Oil Tank Farm Oil Storage Tank	1999
(-)	167	Mixing	T-409 New Oil Tank Farm Oil Storage Tank	1999
(-)	168	Boiler	T-505 Boiler Water Demineralizer Tank	2005
(-)	169	Extruder	T-606 Reservoir for Chilling System Cold Side	1989
(-)	170	Extruder	T-607 Reservoir for Chilling System Hot Side	1989
(-)	171	E III	T-608 Air Reservoir Tank	1989
(-)	172	EIV	T-713 Condensate Recovery Tank	1995
(-)	173	EIV	T-716 Air Reservoir Tank	1995
(-)	174	Extruder	T-717 Reservoir for Chilling System Hot Side	1995
(-)	175	Extruder	T-718 Reservoir for Chilling System Cold Side	1995
(-)	176	Extruder	T-719 Hot/Cold Tank for Chilling System	1995

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SECTION C – INSIGNIFICANT ACTIVITIES (CONTINUED)

(-)	177	Boiler	T-800 Boiler Treatment Steamate NA 2460	1985
(-)	178	Boiler	T-801 Boiler Treatment Optisperse APO 500	1985
(-)	179	Boiler	T-802 Boiler Treatment Steamate NF 771	1985
(-)	180	Boiler	T-803 Boiler treatment 12.5% Sodium Hypochlorite	1985
(-)	181	Boiler	T-804 Boiler Treatment Hydrochloric Acid	1985
(-)	182	Nitrogen	T-805 Liquid Supply to Vapor System	1995
(-)	183	Nitrogen	T-806 High Pressure Supply to N2 Skid	1995
(-)	184	Nitrogen	T-807 High Pressure Supply to N2 Skid	1995
(-)	185	Nitrogen	T-808 Converts Liquid N2 to Vapor	1995
(-)	186	Extruder	T-809 Hot/Cold Tank for Chilling System	2000
(-)	187	Extruder	T-810 Each Extruder Chilling System	2000
(-)	188	Extruder	T-811 Gear Box Cooling Oil Supply	2000
(-)	189	ΕII	T-812 Condensate Recovery	2003
(-)	190	Mixing	Condensate Recovery	1999
(-)	191	Extruder	T-814 WP4 Barrel Cooling (Heat Transfer Fluid)	2000
(-)	192	Extruder	T-815 WP4 Barrel Cooling (Heat Transfer Fluid)	2000
(-)	193	Mixing	T-820 Oil Weigh Tank Mix Stack 1	1972
(-)	194	Mixing	T-821 Oil Weigh Tank Mix Stack 2	1990
(-)	195	Mixing	T-822 Oil Tank - Mix System Supply Tank	1999
(-)	196	ΕI	T-823 Air Reservoir Tank	1974
(-)	197	Extruder	T-824 Air Reservoir Tank	2000
(-)	198	QC Lab	T-828 Drain Tank for QC Lab	1995
(-)	199	WWTP	T-829 WWT Process Tank (Recovered Oil)	1995
(-)	200	WWTP	T-830 WWT Process Tank (Ferric Chloride)	1995
(-)	201	WWTP	T-831 WWT Process Tank (Sodium Hydroxide)	1995
(-)	202	WWTP	T-832 WWT Process Tank (Waste Oil Sludge)	1995
(-)	203	WWTP	T-833 WWT Day Tank #1 Flocculant	1995
(-)	204	WWTP	T-834 WWT Day Tank #2 Water	1995
(-)	205	WWTP	T-835 WWT Day Tank #3 Ferric Chloride	1995
(-)	206	WWTP	T-836 WWT Day Tank #4 Sodium Hydroxide	1995
(-)	207	WWTP	T-837 WWT Day Tank #5 Empty (Acid)	1995
(-)	208	WWTP	T-838 WWT Day Tank #6 Filter Press Cleaning	1995

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SECTION C – INSIGNIFICANT ACTIVITIES (CONTINUED)

			Chemical	
(-)	209	WWTP	T-839 WWT Process Tank (Sludge Process Tank)	1995
(-)	210	WWTP	T-840 WWT Process Tank (Sand Filter Feed Tank)	1995
(-)	211	WWTP	T-841 WWT Process Tank (Floc Mix Tank)	1995
(-)	212	WWTP	WWT Process Tank (Neutralizer Tank #1)	1995
(-)	213	WWTP	T-843 WWT Process Tank (Neutralizer Tank #2)	1995
(-)	214	WWTP	T-844 WWT Process Tank (Multipurpose Tank)	1995
(-)	215	WWTP	WWT Process Tank	1995
(-)	216	Boiler	T-846 Boiler Treatment Optisperse	1985
(-)	217	Boiler	T-847 Boiler Treatment Control	1985
(-)	218	Boiler	T-848 Boiler Treatment Caustic Tank	1985
(-)	219	Nitrogen	T-905 Low Pressure Nitrogen	1995
(-)	220	WWTP	Water Discharge Lagoon	1990
(-)	221	Mixing	Black Recycle Pellet Hopper & Conveyance	2005
76	222	Pelletizing	Grinder #2 Cyclone	2005
(-)	NA	Maint	Maintenance Welding	NA
(-)	NA	Maint	Maintenance Painting	NA
(-)	NA	Maint	Maintenance Solvent Degreasing	NA
78	224	Boiler	T-507 Fuel Oil Tank – Boiler Backup	2006
37	119	WWTP	T-413 Wastewater Oil/Solvent/Water Skimming Tank	2006
37	225	WWTP	T-414 Wastewater Decant Multipurpose Tank	2006
37	226	WWTP	T-415 Wastewater Sludge Tank	2006
79	227	Extruder	WP5 Pellet Feeder & Cyclone	2006

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SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months, unless stated otherwise in Section B of this permit.

The sourcewide emissions of n-Hexane shall not exceed 121 lb/hr and 529.98 tons/year.

Compliance Demonstration Method:

The permittee shall calculate the hexane emissions of all the hexane emitting units on a monthly basis at the end of each calendar month.

- Monthly hexane emissions = \sum (Monthly emissions from all hexane emitting units)
- Hourly hexane emissions = $\sum_{i=1}^{n}$ Monthly emissions / Monthly hours of operation Where summation (Σ) from (i to n) represents each Hexane emitting unit at the facility.
- Annual Emission Rate = Sum of any consecutive twelve (12) months.

Monitoring and Recordkeeping Requirements:

- i. All the parameters listed in the hexane/VOCs monitoring plan shall be monitored and recorded at each Hexane/VOCs emitting unit.
- ii. Changes to the composition of the solvent resulting in any increased percentage of Hexane shall be reported for the Division's approval.
- 2. Regulation 401 KAR 63:010, applies to the fugitive emissions. The source shall comply with Sections 3 and 4 of this regulation.
- 3. 40 CFR 64, Compliance Assurance Monitoring, applies to the control of hexane and VOC from Group 04 Extractor Line I, Group 05 Extractor Line II, Group 06 Extractor Line III, and Group 07 Extractor Line IV, with the use of carbon bed filters. All parameters listed in the VOC monitoring plan for the facility shall be monitored and recorded.

<u>Indicator Ranges, Designated Conditions, Performance Design Criteria and Performance</u> Criteria

Carbon bed exhaust shall be continuously monitored by use of analyzers that measure the concentration of combustible vapors in the outlet air stream. The operator shall observe the concentration during each shift. Normal operating conditions shall have a common exhaust concentration of hexane less that 100 ppm. Should an analyzer fail or malfunction, refer to Section F, 7 and 8 of this permit. If a carbon bed is shut down for any reason (preventative

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SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

maintenance, malfunction, etc.), then the extractors and evaporators that feed the carbon bed shall be shut down.

In addition to the continuous monitoring of the carbon bed exhaust by the equipment operators, a daily emission check and routine inspection of the carbon bed, extractor and equipment shall be performed. Carbon bed analyzers shall be calibrated monthly and records shall be available.

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SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

1. Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

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$\begin{array}{ll} \textbf{SECTION} \ \ \textbf{F} - \textbf{MONITORING}, \ \textbf{RECORD} \ \ \textbf{KEEPING}, \ \textbf{AND} \ \ \textbf{REPORTING} \\ \textbf{REQUIREMENTS} \end{array}$

- 1. Pursuant to Section 1b (IV)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
 - a. Date, place as defined in this permit, and time of sampling or measurements;
 - b. Analyses performance dates;
 - c. Company or entity that performed analyses;
 - d. Analytical techniques or methods used;
 - e. Analyses results; and
 - f. Operating conditions during time of sampling or measurement.
- 2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b(IV) 2 and 1a(8) of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
 - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
 - b. To access and copy any records required by the permit:
 - Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.
 Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
- 4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
- 5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Section 1b (V)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be

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SECTION F – MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

certified by a responsible official pursuant to 401 KAR 52:020 Section 23. If continuous emission and opacity monitors are required by regulation or this permit, data shall be reported to the Technical Services Branch in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All deviations from permit requirements shall be clearly identified in the reports.

- 7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
 - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
 - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
- 8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report required by Section F.6 [Section 1b (V) 3, 4. of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26].
- 9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
 - a. Identification of the term or condition;
 - b. Compliance status of each term or condition of the permit;
 - c. Whether compliance was continuous or intermittent;
 - d. The method used for determining the compliance status for the source, currently and over the reporting period.
 - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

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SECTION F – MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality Owensboro Regional Office 3032 Alvey Park Dr. W, STE 700 Owensboro, KY 42303-2191 U.S. EPA Region 4 Air Enforcement Branch Atlanta Federal Center 61 Forsyth St. Atlanta, GA 30303-8960

Division for Air Quality Central Files 803 Schenkel Lane Frankfort, KY 40601

- 10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.
- 11. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

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SECTION G - GENERAL PROVISIONS

(a) <u>General Compliance Requirements</u>

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a, 3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020 Section 26].

- 2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a, 6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
 - a. If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
 - b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
 - c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

- 4. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the conditions of this permit [Section 1a, 7,8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].
- 6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a

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SECTION G - GENERAL PROVISIONS (CONTINUED)

result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a, 14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

- 7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a, 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Section 1a, 15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a, 10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3)(b)].
- 11. This permit does not convey property rights or exclusive privileges [Section 1a, 9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Environmental and Public Protection or any other federal, state, or local agency.
- 13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3)(d)].
- 14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3)(a)].
- 15. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.
- 16. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the

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SECTION G - GENERAL PROVISIONS (CONTINUED)

time of issuance. Compliance with the conditions of a permit shall be considered compliance with:

- a. Applicable requirements that are included and specifically identified in the permit and
- b. Non-applicable requirements expressly identified in this permit.

(b) Permit Expiration and Reapplication Requirements

- 1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].
- 2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020 Section 8(2)].

(c) <u>Permit Revisions</u>

- 1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).
- 2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

(d) <u>Construction, Start-Up, and Initial Compliance Demonstration Requirements</u>

- 1. Construction of any process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.
- 2. Within thirty (30) days following commencement of construction and within fifteen (15) days following start-up and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Regional Office listed on the front of this permit in writing, with a copy to the Division's Frankfort Central Office, notification of the following:
 - a. The date when construction commenced.

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SECTION G - GENERAL PROVISIONS (CONTINUED)

b. The date of start-up of the affected facilities listed in this permit.

c. The date when the maximum production rate specified in the permit application was achieved.

- 3. Pursuant to 401 KAR 52:020, Section 3(2), unless construction is commenced within eighteen (18) months after the permit is issued, or begins but is discontinued for a period of eighteen (18) months or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon written request, the Cabinet may extend these time periods if the source shows good cause.
- 4. For those affected facilities for which construction is authorized by this permit, a source shall be allowed to construct with the proposed permit. Operational or final permit approval is not granted by this permit until compliance with the applicable standards specified herein has been demonstrated pursuant to 401 KAR 50:055. If compliance is not demonstrated within the prescribed timeframe provided in 401 KAR 50:055, the source shall operate thereafter only for the purpose of demonstrating compliance, unless otherwise authorized by Section I of this permit or order of the Cabinet.
- 5. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance demonstration (test) on the affected facilities in accordance with 401 KAR 50:055, General compliance requirements. These performance tests must also be conducted in accordance with General Provisions G(d)7 of this permit and the permittee must furnish to the Division for Air Quality's Frankfort Central Office a written report of the results of such performance test
- 6. Terms and conditions in this permit established pursuant to the construction authority of 401 KAR 51:017 or 401 KAR 51:052 shall not expire.

(e) Acid Rain Program Requirements

1. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

(f) Emergency Provisions

- 1. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
 - a. An emergency occurred and the permittee can identify the cause of the emergency;
 - b. The permitted facility was at the time being properly operated;

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SECTION G - GENERAL PROVISIONS (CONTINUED)

During an emergency, the permittee took all reasonable steps to minimize levels of
emissions that exceeded the emissions standards or other requirements in the permit;
and

- d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
- e. This requirement does not relieve the source of other local, state or federal notification requirements.
- 2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].
- 3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].
- (g) Risk Management Provisions
- 1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center P.O. Box 1515 Lanham-Seabrook, MD 20703-1515.

- 2. If requested, submit additional relevant information to the Division or the U.S. EPA.
- (h) Ozone depleting substances
- 1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
 - e. Persons owning commercial or industrial process refrigeration equipment shall

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SECTION G - GENERAL PROVISIONS (CONTINUED)

comply with the leak repair requirements pursuant to 40 CFR 82.156.

- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
- 2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

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SECTION H - ALTERNATE OPERATING SCENARIOS

None

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SECTION I – COMPLIANCE SCHEDULE

This section contains compliance schedule requirements as specified by Section 1c of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26. Progress reports on this schedule must be submitted at least semiannually, or at more frequent intervals if required in the specific conditions outlined below. Reports shall include the following items: (a) Dates scheduled for achieving each milestone, and the actual date that compliance is achieved; and (b) An explanation of why dates in /the schedule of compliance were not or will not be met, and preventive or corrective measures adopted to ensure that compliance with future items will be brought back on schedule. Compliance certifications shall be mailed to the addresses listed in General Condition F.9